



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 26577	I OIL ON THEN SECTIONICATION	n of Transmittal of International Search Report V220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/IL 03/00956	12/11/2003	12/11/2002
Applicant		12/11/2002
YEDA RESEARCH AND DEV		
This International Search Report haccording to Article 18. A copy is be	has been prepared by this International Searching Autoeing transmitted to the International Bureau.	thority and is transmitted to the applicant
This International Search Report c It is also accompany	onsists of a total of7 sheets. nied by a copy of each prior art document cited in this	s report.
Basis of the report		
	ge, the international search was carried out on the based, unless otherwise indicated under this item.	
	ide and/or amino acid sequence disclosed in the in softhe sequence listing:	ternational application, the international search
=	ernational application in written form. he international application in computer readable forn	
	ne international application in computer readable fornerity to this Authority in written form.	n.
	ently to this Authority in written form. ently to this Authority in computer readble form.	
the statement that the	he subsequently furnished	
international applica	he subsequently furnished written sequence listing do ation as filed has been furnished.	oes not go beyond the disclosure in the
the statement that the furnished	he information recorded in computer readable form is	identical to the written sequence listing has been
	e found unsearchable (See Box I).	
Unity of invention	is lacking (see Box II).	
. With regard to the title,		
	as submitted by the applicant.	
Line text has been es	tablished by this Authority to read as follows:	
With regard to the abstract,		
X the text is approved a	as submitted by the applicant.	
the text has been est within one month from	ablished, according to Rule 38.2(b), by this Authority n the date of mailing of this international search repor	as it appears in Box III. The applicant may, rt, submit comments to this Authority.
The Control of the Co	published with the abstract is Figure No.	
ine figure of the drawings to be		
as suggested by the a	applicant.	X None of the figure
as suggested by the a	applicant. t failed to suggest a figure.	X None of the figures.



Box i Observations where certain claims were found unsearchable (Continuation of Item 1 of Itest sneet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
see additional sheet	
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
A. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-121 (all partially)	
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-121 (all partially)

Chimeric polypeptides comprising an autoprocessing segment type A Bacterial Intein-Like domain (SEQ ID No 1-62, 105).

2. claims: 1-121 (all partially)

Chimeric polypeptides comprising an autoprocessing segment type K Bacterial Intein-Like domain (SEQ ID Nos 63-104, 106). $\mathbb S$

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A. CLASSIF IPC 7	CO7K14/195 C12N15/62 C07K1/14		
According to	International Patent Classification (IPC) or to both national classification	tion and IPC	
B. FIELDS			
IPC 7			
	on searched other than minimum documentation to the extent that su		
	ata base consulted during the international search (name of data bas ternal, BIOSIS, MEDLINE, Sequence Se EMBL		
C. DOCUME	NTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to daim No.
P,X	AMITAI GIL ET AL: "Distribution function of new bacterial intein-protein domains." MOLECULAR MICROBIOLOGY, vol. 47, no. 1, January 2003 (200 pages 61-73, XP002273904 ISSN: 0950-382X (ISSN print) the whole document	like	1-121
X	DATABASE EMBL 'Online! 21 March 2000 (2000-03-21), FRASER ET AL.: "Neisseria gonorrh 730" XP002273909 Database accession no. AAY75498 *Sequence SEQ ID No 17* the whole document	ae ORF	1-61
X Furti	ner documents are listed in the continuation of box C.	Patent family members are listed	n annex.
° Special ca	tegories of cited documents :	*T* later document published after the inte	ernational filing date
A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document is cannot be considered novel or cannot be considered to involve an inventive step when the document is cannot be considered to involve an inv		the application but early underlying the claimed invention to be considered to current is taken alone claimed invention ventive step when the ore other such docu-	
	ant he priority date claimed	*&* document member of the same patent	family
	actual completion of the international search 7 March 2004	Date of mailing of the international sea	06. 04
	nailing address of the ISA	Authorized officer	
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Seroz, T	

PCT 03/00956

C.(Continu	C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Y	ZHANG A ET AL: "Construction of a mini-intein fusion system to allow both direct monitoring of soluble protein expression and rapid purification of target proteins." GENE. NETHERLANDS 19 SEP 2001, vol. 275, no. 2, 19 September 2001 (2001-09-19), pages 241-252, XP004307847 ISSN: 0378-1119 page 250, left-hand column, paragraph 3 - page 251, right-hand column, paragraph 1; figures 1,3	1-121	
Y	HUMPHRIES HOLLY E ET AL: "Expression of the class 1 outer-membrane protein of Neisseria meningitidis in Escherichia coli and purification using a self-cleavable affinity tag." PROTEIN EXPRESSION AND PURIFICATION. UNITED STATES NOV 2002, vol. 26, no. 2, November 2002 (2002-11), pages 243-248, XP002273905 ISSN: 1046-5928 page 247, right-hand column, paragraph 2 - page 248, left-hand column, paragraph 2; figure 1	1-121	
A	ASPOCK GUDRUN ET AL: "Caenorhabditis elegans has scores of hedgehog-related genes: Sequence and expression analysis" GENOME RESEARCH, vol. 9, no. 10, October 1999 (1999-10), pages 909-923, XP002273906 ISSN: 1088-9051		
А	PIETROKOVSKI S: "Intein spread and extinction in evolution" TRENDS IN GENETICS, ELSEVIER, AMSTERDAM, NL, vol. 17, no. 8, 1 August 2001 (2001-08-01), pages 465-472, XP004301639 ISSN: 0168-9525		
P,X	DATABASE TREMBL 'Online! 1 June 2003 (2003-06-01), BUELL ET AL.: "Filamentous hemagglutinin, intein-containing, putative." XP002273907 Database accession no. Q880E1 *Sequence SEQ ID No 13 and 14* the whole document	1-121	
	Sequence SEQ ID No 13 and 14 the whole document	X .	

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on of document, with indication, where appropriate, of the relevant passages ATABASE TREMBL 'Online! June 2003 (2003-06-01), ROWN ET AL.: "Hypothetical protein CP1.201" P002273908 atabase accession no. Q9ACV2 Sequence SEQ ID No 15* he whole document ATABASE TREMBL 'Online! March 2003 (2003-03-01), EN S: "Probable phenazine biosynthesis amily protein" P002273910 atabase accession no. Q8EZX6 Sequence SEQ ID No 37* he whole document ATABASE TREMBL 'Online! October 2003 (2003-10-01), LOECKNER FO ET AL.: "HYPOTHETICAL PROTEIN B6107" P002273911 atabase accession no. Q7UQT4	1-121 1-121 1-121
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June 2003 (2003-06-01), ROWN ET AL.: "Hypothetical protein CP1.201" P002273908 atabase accession no. Q9ACV2 Sequence SEQ ID No 15* he whole document ATABASE TREMBL 'Online! March 2003 (2003-03-01), EN S: "Probable phenazine biosynthesis amily protein" P002273910 atabase accession no. Q8EZX6 Sequence SEQ ID No 37* he whole document ATABASE TREMBL 'Online! October 2003 (2003-10-01), LOECKNER FO ET AL.: "HYPOTHETICAL PROTEIN B6107" P002273911 atabase accession no. Q7UQT4	1-121
March 2003 (2003-03-01), EN S: "Probable phenazine biosynthesis amily protein" P002273910 atabase accession no. Q8EZX6 Sequence SEQ ID No 37* he whole document ATABASE TREMBL 'Online! October 2003 (2003-10-01), LOECKNER FO ET AL.: "HYPOTHETICAL PROTEIN B6107" P002273911 atabase accession no. Q7UQT4	
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International Application No
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Category °		Relevant to claim No.
P,X	DATABASE TREMBL 'Online! 1 March 2003 (2003-03-01), REN S.: "hypothetical protein LA3719" XP002273915 Database accession no. Q8EZY2 *Sequence SEQ ID No 60* the whole document	1-121
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